TYLKINA, M.A.; FOVAROVA, K.B.

Second All-Union Conference on Rhenium. TSvet. met. 36 no.4:

(MIRA 16:4)

92-93 Ap '63.

(Monferrous metal industries—Congresses)

(Rhenium)

TYLKINA, M.A. (Moskva); POVAROVA, K.B. (Moskva); SAVITSKIY, Ye.M. (Moskva)

Recrystallization and mechanical properties of alloys in the system tungsten - molybdenum - rhenium. Izv. AN SSSR.Otd.tekh.nauk. (MIRA 15:10)

Mot. i topl.181-186 S-0 '62. (MIRA 15:10)

(Tungsten molybdenum-rhenium alloys—Testing)

(Crystallization)

SAVITSKIY, Ye.M.: TYLKINA, M.A.: POVAROVA, K.B.

Phase diagram of the aluminum - rhenium system. Zhur.neorg.khim.
(MIRA 14:8)
6 no.8:1962-1965 Ag '61.

1. Institut metallurgii imeni A.A. Eaykova AN SSSR.
(Aluminum) (Rhenium)

88598

S/078/60/005/011/009/025 B015/B060

18,1200

Tylkina, M. A., Povarova, K. B., Savitskiy, Ye. M.

AUTHORS: TITLE:

Ternary Solid Solutions in the Tungsten - Molybdenum -

Rhenium System

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 11,

pp. 2458-2461

TEXT: The article under consideration shows a part of the constitution diagram of the W - Mo - Re ternary system obtained by the method of microstructural analysis, by measuring the hardness and the melting point of the alloys. The authors studied the diagram on the side of the solid solution in tungsten and molybdenum up to 50 wt% rhenium, with the alloys of the parallel cross sections W - Mo being selected with a constant rhenium content of 10, 20, 30, 40, and 50% (Fig. 1). From the data of phase analysis, three isothermal cross sections of cast alloys, annealed at 1750° C for 3 h, and at 1000° C for 450 h were recorded. The cuts for the microstructural examinations were etched in a mixture of 10% KOH and 30% K₃[Fe(CN)₆] (1:2). A fairly large region of ternary solid solutions

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Ternary Solid Solutions in the Tungsten - Molybdenum - Rhenium System

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with body-centered cubic crystal lattice was observed in the system concerned. A ternary 6 -phase formed. Between the ternary solid -solutions and the 6-phase there is the two-phase region < +6 (Fig. 1). It may be observed from the pictures of microstructure (Fig. 2) of the cross section with 40 wt% Re that the alloy with 40 wt% W and 20 wt% Mo is situated at the limit of solubility and is a one-phase ternary solid solution at high temperatures, which on a decrease of temperature passes over into the twophase state & + 6. The alloy with 30 wt% W and 30 wt% Mo remains a onephase ternary solid solution at all temperatures. The alloy 50 wt% W and 10 wt% Mo, on the other hand, has a two-phase structure a + 6 at all temperatures. The formation of twins, which had already been observed by Highes and Geach (Ref. 5), C.T. Sims and R. J. Jaffee (Ref. 6) was identified in the region of ternary solid solutions. This additional deformation by twinning is explained by the larger amount (in this field) of the densely packed hexagonal rhenium. For this reason, high elasticity and good mechanical properties are expected of alloys of this region. In the region of ternary solid solutions hardness changes little with temperature (Table). Changes in the solidus temperature showed that in the region of ternary solid solutions at constant rhenium content (up to

Card 2/3

88598

Ternary Solid Solutions in the Tungsten - Molybdenum - Rhenium System

S/078/60/005/011/009/025 B015/B060

30 wt% Re) there occurs a uniform drop of the melting point of alloys with a decrease of the tungsten content and an increase of the molybdenum content. In the authors' opinion, the alloys of the composition of ternary solid solutions are specially suited as building material, wherever great demands are made on strength, plasticity, weldability, and a high melting point, but no stability to oxidation at high temperatures. There are 2 figures, 1 table, and 8 references: 4 Soviet, 3 German, and 1 US.

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR

(Institute of Metallurgy imeni A. A. Baykov of the Academy

of Sciences of the USSR)

SUBMITTED:

February 17, 1960

Card 3/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

POVAROVA, K.B.; TYLKINA, M.A.

Properties and use of rhenium. Biul.tekh.mekon.inform.Gos.naunh.missl.inst.nauch.i tekh.inform. no.9:7-11 '63. (MIRA 16:10)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

L 18518-63	s/0279/63/000/002/0174/0176
ACCESSION NR: AP3000919	1
AUTHORS: Tylkina, M. A.; Povarova, 1	к. в.
TITLE: Second All-Union conference	on rhenium
SOURCE: AN SSSR. Izv. otd. tekh, n	auk. Metallurgiya i gornoye delo, no. 2, 1963,
174-176	
TOPIC TAGS: rhenium	
19-21, 1962. The conference was org Baykova (Institute of Metallurgy) and metallov (Goskomitet SM SSSR po cher Rare Metals (Goskomitet SM SSSR of F Conference on Rhenium was held in Mo	erence on Rhenium was held in Moscow on November anized by the Institut metallurgii im. A. A. I by the Gosudarstvenny*y institut redkikh noy: itsvetnoy metallurgii) /State Institute of Perrous and Nonferrous Metallurgy). The First oscow in 1958, and the International Symposium properties, and uses of rhenium were presented.
ASSOCIATION: none	•

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B127/B220

AUTHORS:

Savitskiy, Ye. M., Tylkina, M. A., Povarova, K. B.

TITLE:

Phase diagram of aluminum-rhenium

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 8, 1961, 1962-1965

TEXT: A compound of the type CsCl is known to the authors from the literature: AlRe, a = 2.88Å. The alloys were prepared from 99.8% Re and AB-000 (AV-000), i. e., 99.9% aluminum. The plotting of the diagram is rather difficult, since the weights (Al: 2.7; Re: 21.02), the melting roints (Al: 660°C; Re: 3170°C), and the boiling points (Al: 2060°C; Re: 5870°C) are very different. Alloys containing 13.6 - 86.3 % by weight of Re were prepared in an arc furnace with water-cooled tungsten electrodes in an argon atmosphere at a pressure of 400 mm Hg and remelted 4 - 5 times in order to obtain a homogeneous phase. Alloys containing 0 - 6% of Re were fused in an induction furnace with NaCl as flow medium from aluminum and alloys containing 37% of Re in corundum crucibles. Alloys containing 88.5 - 99.6% of Re were fused from rhenium and compounds containing 74.5% of Re in the arc furnace. The melting point of alloys containing 74.5

Card 1/4

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S/078/61/006/003/013/018 B127/B220

Phase diagram of ...

99.6% of Re was determined using the capillary method and an optical pyrometer. The compounds enriched with aluminum were tested with a special device recording the thermogram on heating and cooling by means of a Kurnakov pyrometer. A high-temperature thermocouple W - 3% Re/W - 15% Re was used. Thermal analysis was effected in a vacuum furnace with tungsten heaters and helium atmosphere. Alloys containing O - 82.5% of rhenium were tempered in evacuated quartz ampullae for 500 hr at 570°C, and alloys containing 74.5 - 99.6% of Re for 100 hr at 1000°C, for 5.5 hr at 1300°C, and for 1.5 hr at 1600°C and 10-4 mm Hg. The Brinell hardness of alloys with 0 - 60% of Re was measured with 2.5 mm balls and at a pressure of 31.25 kg. Moreover, the hardness of the alloys was measured by means of a Vickers diamond at a pressure of 10 kg, and with a TMT-3 (PMT-3) diamond at pressures of 20 and 50 g. The X-phase of the diagram corresponds to the α-phase of manganese. The lattice parameter a = 9.85 Å, the space group 143 m - L2. The microhardness is 800 kg/mm². Al2Re has a microhardness of 360 kg/mm² and the same structure as Al₁₂W or Al₁₂Re has a microhardness of 360 kg/mm² and the same structure as Al₁₂W or Al₁₂Mo with cubic structure. The lattice parameter a = 7.528 ± 0.001 Å, the space group Lm3-T_h. There are Gard 2/4

Card 3/4

APPROVED FOR DELEASE

SOV/78-4-2-27/40 Savitskiy, Ye. M., Tylkina, M. A., Povarova, K. B. .18(6)

AUTHORS:

The Phase Diagram of the System Rhenium-Molybdenum (Diagramma sostoyaniya sistemy reniy-molibden) TITLE:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2, PERIODICAL:

pp 424-434 (ŪSSR)

The phase diagram of the system Mo-Re was drawn on the basis of the results obtained by physico-chemical and analytical ABSTRACT: investigations (determination of the melting point, misros

scopic, X-ray, and phase analyses, determinations of the specific electric resistance, and determination of solidity).

For the production of the alloys maximum purity rhenium (99.8%) and molybdenum (99.8%) were used as initial materials. The pressed samples were sintered in vacuum at 1500°. In the

system rhenium-molybdenum solid solutions containing 58 weight% rhenium (42 at % Re) are formed at temperatures near the melting point. The solidity of molybdenum alloys increases, in the field of solid solutions, from 130 kg/mm² (pure molybdenum) to 205 kg/mm² for the alloy containing 53 weight;

rhenium. In alloys with 43-46 weight % rhenium the liquidus

and solidus curve of the solid solutions show a minimum at a

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SOV. 78~4-2-27, 40

The Phase Diagram of the System Rhenium-Molybdenum

temperature from 2450+30°. The X-ray analysis showed that upon increase of rhenium content the lattice constant in the solid solution is reduced and is 3.12 Å in the alloy with 53 weight %. The determination of the electric resistance confirmed the range of solid solutions. The specific electric resistance of pure molybdenum is 6.6.10-6 ohm·cm; and rises to 27.6.10 ohm-cm in alloys with 42 weight % rhenium. In the system Mo-Re the o-phase (Re3Mo2) is formed after a peritection reaction at 2570°. The lattice parameters of the σ -phase ara: a=9.54 Å and c=4.95 Å. The micro-solidity of the σ -phase is 1850 kg/mm^2 . The specific electric resistance of the σ phase is stronger than that of the solid solution and amounts to 3.1.10-4 ohm.cm in the alloy with 78 weight % Re. The diphase field α + σ exists between the σ -phase and the field of solid solutions. The mono-phase field of solid solutions of molybdenum in rhenium exists at the melting point temperature starting with 10 weight % molybdenum and amounts up to 2-3 weight % Mo at 1100°. The solidity of the alloy with

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The Phase Diagram of the System Rhenium-Molybdenum

95 weight % Re is reduced to 320 kg/mm², and to 290 kg/mm² in pure rhenium. In these alloys also the electric resistance is reduced to 57.10⁻⁶ ohm.cm for the alloy with 95 weight % Re. In the system Mo.Re the phase X is formed after the peritectic reaction at 1850°. The peritectic change σ + β → X takes place in alloys which contain 81-95 weight % rhenium. The X phase has the structure of type α-Mn as has been found by X-ray analysis. The microscopic examinations of solidity and electric resistance of alloys with 81-95 weight % rhenium prove the existence of the X-phase. The solidity and electric resistance of the alloys are increased by the formation of the new phase X. There are 7 figures, 2 tables, and 11 references, 3 of which are Soviet.

ASSOCIATION:

Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences, USSR)

SUBMITTED:

November 25, 1957

Card 3/3

SAVITSKIY, Ye.M., doktor khim. nauk, otv. red.; RYABCHIKOV, D.I., doktor khim. nauk, red.; BIBIKOVA, V.I., doktor khim. nauk, red.; TYLKINA, M.A., kand. tekhn. nauk, red.; POVAROVA, K.B., inzh., red.; MAKARENKO, M.G., red. izd-va; SIMKINA, G.S., tekhn. red.

[Rhenium; transactions] Renii; trudy. Moskva, Izd-vo Akad. nauk SSSR, 1961. 278 p. (MIRA 15:1)

1. Vsesoyuznoye soveshchaniye po probleme reniya, 1958. (Rhenium)

POVAKOVA, K. P.

\$\078\60\005\008\015\018 B004/B052

AUTHORS:

Tylkina, M. A., Povarova, K. B., Savitskiy, Ye. M.

TITLE:

Phase Diagram of the System Vanadium $^{\sim}$ Rhenium $^{\sim}$

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

pp. 1907-1910

TEXT: The phase diagram depicted in Fig. 1 was determined by means of a measurement of the melting temperatures, microscopic and radiographic analyses, measurement of the hardness of the alloys and the micro hardness of the components. The initial substances were V and Re powder fused together in an arc furnace. The melting temperature was determined by means of an optical pyrometer calibrated according to the pure metals. The hardness was measured according to Vickers with a NMT-3 (PMT-3) apparatus. The X-ray pictures were taken with an PKA (RKD) camera. In Fig. 2 the microstructures of V-Re alloys are depicted, and a Table gives the analytical data and hardnesses. An exact description of ranges, lattice constants, and physical data of the new o-phase (VRe3)

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Phase Diagram of the System Vanadium - Rhenium

S/078/60/005/008/015/018 B004/B052

which is only stable above 1500°C are given, and also the ranges of the solid solutions, α - and β -phases, α + β eutectic, and the twophase ranges of α + σ and σ + β . There are 2 figures, 1 table, and 2 references: 1 Soviet

ASSOCIATION:

Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (<u>Institute of Metallurgy imeni A. A. Baykov of the</u> <u>Academy of Sciences</u>. USSR)

SUBMITTED:

February 17, 1960

Card 2/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

SAVITSKIY, Ye.M., doktor khim. nauk, otv. red.; RYABCHIKOV, D.I., doktor khim. nauk, red.; BIBIKOVA, V.I., doktor tekhn. nauk, red.; TYLKINA, M.A., kand. tekhn. nauk, red.; POVAROVA, K.B., kand. tekhn. nauk, red.; EORISCVA, L.V., inzh., red.; MAKARENKO, M.G., red.

[Rhenium; transactions] Renii; trudy. Moskva, Nauka, 1964. 257 p. (MIRA 18:1)

1. Vsesoyuznoye soveshchaniye po probleme reniya. 2d, 1962.

L 27228-66 EWT(m)/T/EWP(w), ACC NR. AM6003227	/EWP(t) IJP(c) JD/JG Monograph	≥ P UR/	
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Kira Borisovna	nailovich; Tylkina, Mariya Ar	onovna; Povarova,	
AIIA BOIISOVNA			
Alloys of rhenium (Splay	y reniya) Moscow, Izd-vo "Na	uka." 1965. 334 n.	
illus., biblio. (At	head of title: Akademiya na	uk SSSR. Gosu-	
darstvennyy komitet	po chernoy i tavetnoy metalli	urgii pri gosplane	
SSSR. Institut meta	allurgii im. A. A. Baykova) 2	500 copies printed.	
TOPIC TAGS: rhenium rh	nenium alloy, alloy containing		
production. rhenium	property, rhenium alloy prope	g rhenium, rhenium	
phase diagram	property, incured arroy propi	- Inentum	
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PURPOSE AND COVERAGE: 1	This monograph is published a	s an encyclopedic	•
An attempt was made	nowledge on rhenium, its allowed to generalize the data gather	ys and compounds.	
about the structure.	and physicochemical propertic	est of rhenium ita	
alloys and compounds	, and to determine the applic	cation of rhenium	
in industry.			
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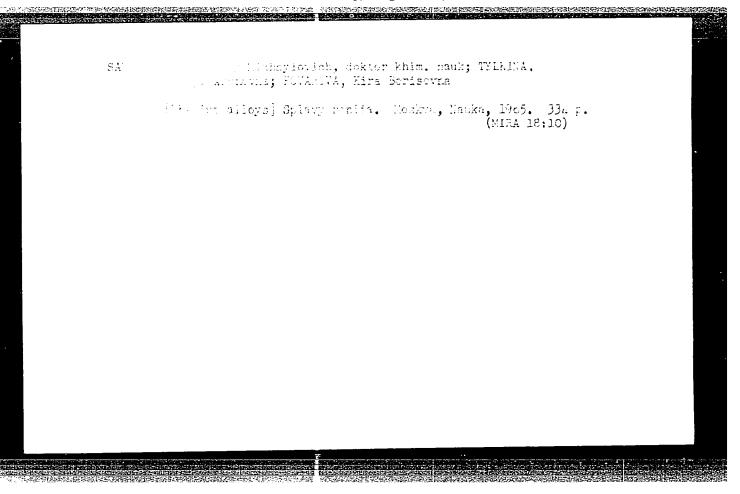
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

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Card 5/5

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"



SHMULEVICH, A.I.; POVAROVA, L.N.; TURSUNOV, P.T.; LI, P.N.; ORLOV V.P.

Chemotherapeutic characteristics of the new preparation axidine. Veterinariia 38 no.lls23-25 N '61 (MIRA 18:1)

1. Gosudarstvennyy nauchno-kontrolinyy institut veterinarnykh preparator Ministerstva seliskogo khozyaystva SSSR (for Shmulevich, Povarova) 2. Nauchno-issledovateliskiy institui veterinarii Mkademii seliskokhozyaystvennykh nauk Uzbekskoy SSR (for Tursunov, Li., Orlov).

Atheism of Epicus 160.	rus. Mauka 1 zhizhn'	27 no.2:49-51 (MIRA 13:6)	
1. Moskovskiy go	sudarstvennyy universit (Atheism)	et.	
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18.9200 AUTHORS:

Tylkina, M. A., Povarova, K. B., Savitskiy, Ye. M.

68992 3/020/60/131/02/034/071 B011/B005

TITLE:

The Sigma Phase in the Rhenium-Vanadium System

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 2, pp 332-334 (USSR)

ABSTRACT:

In their previous paper, the authors established the phase diagram of the vanadium-rhenium system (Ref 10). In the present paper, they wanted to determine the temperature range of the existence of the o-phase. For this purpose, they annealed casting alloys at high temperature (1750° for 7 h, 1500° for 5 h, 1000° for 450 h). The X-ray investigation was carried out in a chamber of type PKD with CrK -radiation. The X-ray structural and microstructural investigations showed the eutectoid decomposition of the 6-phase at 1500°. 2 solid solutions are formed: on the basis of vanadium (A) and rhenium (Fig 1 a,b). The roentgenogram of a casting alloy shows a system of lines characteristic of 6-phases (Table 1). The lattice parameters were computed as follows: a = 9.39 Å, c = 4.86 Å, c/a = 0.52. Table 1 lists comparative data of roentgenographic calculations of o -phases in rhenium systems with zirconium, vanadium, niobium, tantalum, chromium, molybdenum, wolfram, manganese, and iron (Refs 4-9). A certain phase difference in the system

Card 1/2

20-119-2-23/60

AUTHORS:

Savitskiy, Ye. M., Tylkina, M. A., Povarova, K. B.

TITLE:

Rhenium Recrystallization Diagram (Diagramma rekristallizatsii

reniya)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2,

pp 274 - 277 (USSR)

ABSTRACT:

Rhenium has different mechanical and physical properties which distinguish it from other metals and which are also of interest for modern engineering. Rhenium is a high melting metal, its melting point is at 3160°C. It has mechanical high strength and plasticity properities at room temperature as well as at higher temperature. The following is characteristic for rhenium: high resistance to wear, and resistance against corrosion in various aggressive media. The electric resistance of rhenium is higher than that of tungsten. Also other properties offer wide prospects for the use of rhenium in different fields of engineering. The recrystallization diagram of rhenium has hitherto not yet been published. The authors investigated the recrystallization diagrams of rhenium after cold deformation

Card 1/4

Rhenium Recrystallization Diagram

20-119-2-23/60

(rolling) of cast and metal-powder samples. As initial material served the powder of metallic rhenium which had been reduced from potassium perenate (perenat kaliya). From this powder the samples were produced by powder metallurgical methods. These rhenium bars were melted in an arc furnace in an argon atmosphere at a pressure of 200 torr. The coarse crystalline structure of the cast metal could be removed. The samples had a recrystallized polyhedral structure with a grain diameter of 40μ and served as initial material for the whole work. The treatment of the samples is shortly discussed. The temperature at the beginning of recrystallization was determined by means of X-ray methods from the occurence of the first points on the diffraction rings. A diagram shows the temperature of the beginning of recrystallization of rhenium as a function of the degree of cold deformation. This temperature drops with increasing deformation degree $1750^{\circ}C$ at 5% deformation to $1200^{\circ}C$ at 40 -60% deformation. In cold deformation of rhenium the grains were crushed. In the case of low compression degrees the formation of deformation twins is observed in rhenium. Further details are discussed. The temperature of the beginning of re-

Card 2/4

Rhenium Recrystallization Diagram

20-119-2-23/60

crystallization of powder metallurgical phenium drops with increasing deformation degree from 1850° C at 5% to 1500° C at 48% of deformation. A diagram shows the dependence of the size of the grains on the temperature of annealing as well as on the degree of deformation. The temperature of the beginning of crystallization of molten rhenium is lower than that of the beginning of recrystallization of powder -metallurgical rhenium which is explained by the different degree of purity of the material as well as by the presence of a microporosity in powdermetallurgical rhenium. According to the data on the recrystallization and on the change of the hardness of rhenium the optimum temperature for annealing of the rhenium deformed with a compression degree of more than 10% the temperature range from $1750 - 2400^{\circ}$ C can be assumed. There are 4 figures and 7 references, 5 of which are Soviet.

Card 3/4

CIA-RDP86-00513R001342 "APPROVED FOR RELEASE: Tuesday, August 01, 2000

Rhenium Recrystallization Diagram

20-119-2-23/60

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR

(Institute for Metallurgy imeni A. A. Baykov, AS USSR)

PRESENTED:

November 28, 1957, by I. P. Bardin, Member, Academy of Sciences, USSR

SUBMITTED:

November 16, 1957

The second of th

Card 4/4

SOY/78-4-8-37/43

5(2) AUTHORS: Savitskiy, Ye. M., Tylkina, M. A., Povarova, K. B.

TITLE:

The Phase Diagram of the System Chromium - Rhenium (Diagramma

sostoyaniya sistemy khrom - reniy)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8,

pp 1928-1930 (USSR)

ABSTRACT:

By means of various physico-chemical methods (determination of the melting point, microscopie analysis, Xeray analysis, measurements of hardness and microhardness), the phase diagram chromiumerhenium was determined (Fig. 1). Some microstructures of cast or thermally processed alloys are shown in figure 2. The phase diagram shows a peritectic type. The peritectics are between 2350° (liquid phase + $\beta = \alpha$) and 2280° (liquid phase + $\sigma = \alpha$ (the solid α -solution is formed on Cr-basis, the solid solution on Rh-basis)). The hardness of the solid solution increases with the rhenium content (138 kg/mm² for pure Cr,

 322 kg/mm^2 for the alloy with 63.5 % by weight Rh). The onephase range of the solid solution of chromium and rhenium was approximately outlined. Apparently the solubility of chromium

Card 1/2

The Phase Diagram of the System Chromium - Rhenium

SOV/78-4-8-37/43

in rhenium does not exceed 5 % by weight Cr. It is emphasized that an addition of 40% rhenium to chromium improves the plasticity of chromium and its processing is facilitated by cutting. There are 2 figures and 8 references, 4 of which

SUBMITTED:

March 17, 1959

Card 2/2

(MIRA 12:3)

SAVITSKIY, Ye.M.; TYLKINA, M.A.; POVAROVA, K.B.

Structural diagram of the rhenium - molybdenum system. Zhur.neorg.

1. Institut metallurgii imeni A.A. Baykova AN SSSR. (Rhenium-molybdenum alloys)

khim. 4 no.2:424-434 F 159.

RESIDENCE OF THE PROPERTY OF T L 23904-65 EWT(m)/EWP(w)/EPF(c)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(b) IJP(c) JD/JG/MLK Pr-4/Pu-4 ACCESSION NR: AT5002770 S/0000/64/000/000/0155/0160 AUTHOR: Povarova, K. B. (Candidate of technical sciences); Tylkina M. A. (Candidate of technical sciences); Savitskiy, Ye. M. (Doctor TITLE: Ternary tungsten-molybdenum-rhenium alloys 27 SOURCE: Vsesoyuznoye soveshchaniye po probleme reniya. 24, Moscow, 77 1962. Reniy (Rhenium); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 155-160 TOPIC TAGS: rhenium, tungsten, molybdenum, ternary alloy, recrystallization temperature, mechanical property, nil ductility transition temperature ABSTRACT: A series of W-Mo-Re alloys containing 33-66% W, 22-40% Mo, and 11-24% Re has been investigated. Small, 70-75-g alloy ingots were preforged at 1400-1000C, rolled at 1200-800C (below the recrystallization point) with a rotal reduction of more than 90% to a thickness of 0.7-1.0 mm. The temperature of the beginning of recrystallization of the alloys varied from 1450 to 1550 depending on composition. The room temperature strength and elongation were 113 to Card 1/2

L 23924-65

ACCESSION NR: AP5000121

allowable maximum length of workpiece 2000 mm, and allowable maximum diameter of workpiece 80 mm. The control box has a time-delay device and is used to control the welding equipment in operation.

ASSOCIATION: Shang-hai Lao-tung tien han chi ch'ang (Shanghai Lao-tung Electric Welding Equipment Plant)

SUBMITTED: 00

ENCL: 00

SUB CCDE: IE

NR REF SOV: 000

OTHER: 000

Card 2/2

POVAROVA, L.N., mladshiy nauchnyy sotrudnik

Prophylaxis of piroplasmosis in cattle. Veterinariia 40 nc.7:
20-21 J1 '63. (MIRA 16:8)

1. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov.

(Piroplasmosis) (Gattle--Diseases and pests)

POVAROVA, L. H., SCHWIL WICH, A. I., Li, F.H., TOTOLOV, F. ., SELLY, V. F. (1 State Sci. Control Inst. of Vet. Freparations, Min. of Agri., U.S.) (2 Sci. Res. Inst. of Veterinary Medicine of the Acad. Agric. Sci. Uz SSR).

"Chemotherapeutic Properties of the New Azidin Preparation."

Veterinariya vol. 37, no. 11, November 1961., p. 23

83470 s/182/60/000/001/004/008 A161/A029

26.2122 AUTHORS:

Bagatov, B.N.; Martynov, V.N.; Povarov, V.S.

TITLE:

Progressive Trends in Production of Forgings for Steam and Gas Tur-

bine Blades

PERIODICAL:

Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 1, pp. 17 - 19

Brief general information is given on new precision forging methods for turbine and compressor blades 10 TeNIITMASh has developed a new technology consisting in extrusion and rolling operations, and straightening combined with heat treatment. The first experimental blades for the 7th stage of PT-600-6 (GT-600-6) turbine and 14th and 16th stages of BK-50-1 (VK-50-1) are shown (Figs. 1 and 2) in shaping stages beginning with cylindrical billet and ending with ready forged blade. For comparison, the forging equipment used in industry at the time being, and suggested by LF VPTI on Leningradskiy filial VPTI tyazhelogo mashinostroyeniya (Leningrad Branch of VPTI of Heavy Machine Building) and by TsNIITMASh is listed in tables (Table 1 and 2). All methods give the same 2 - 3 mm machining allowance, but the new method requires simpler equipment and less power. The TaNITTMASh version (right in Table 1) takes a specialized 1,000-ton hydraulic press for ex-

Card 1/3

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S/182/60/000/001/004/008 A161/A029

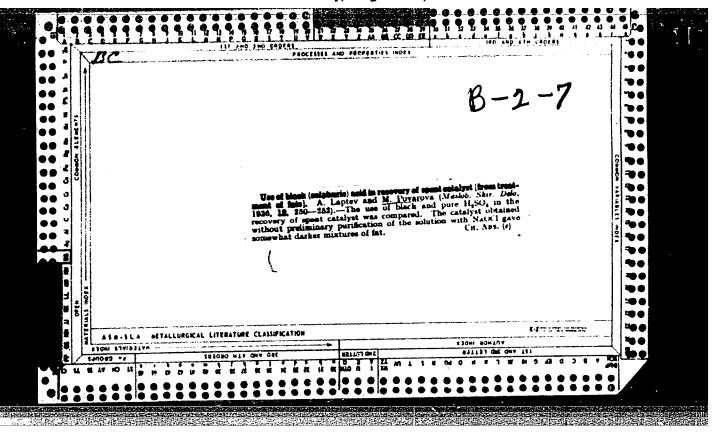
Progressive Trends in Production of Forgings for Steam and Gas Turbine Blades

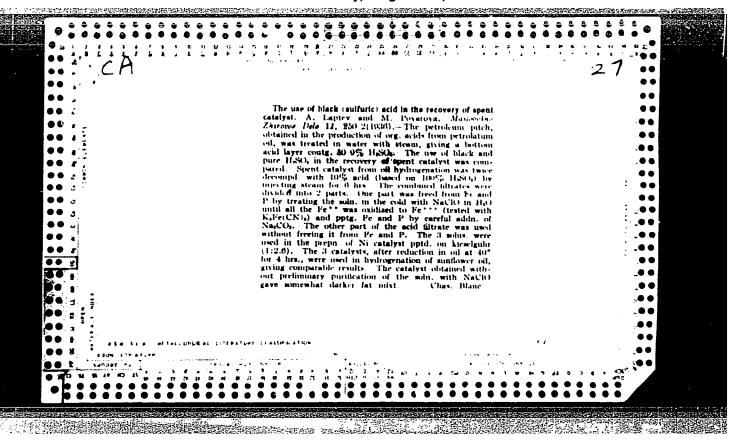
trusion; specialized 315-ton forging rolls for rolling, and a special 2,000-ton press for straightening-sizing The general trend is organization of specialized production centers. Organisational suggestions have been made also by NIAT. TaniiTMASh has suggested five plan versions for line production of blade forgings for stationary steam and gas turbines. All systems either eliminate milling, or require only little of it, raise the metal utilization coefficient from 0.2 to 0.5, and cut the work and costs from 35 to 50% compared to the present production practice. An approximate equipment layout is shown (Fig. 3) for production of turbine and compressor blades with constant as well as varying cross section area and without reinforcement of the work portion. A hot-rolled round bar is straightened in machine "1", passes to a centerless stripping machine "2" for removing surface defects, then it is heated, and cut into blanks in a special die in a crank press, "3", then the blanks are heated without formation of scale to the temperature of the upper deformation interval, lubricated, flattened and extruded in a special press, "4", in single heating, cleaned after cooling in the installation "5", they pass into inspection and go on into the heating furnace "6" with protective atmosphere, pass into special forging rolls "7" and from

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000

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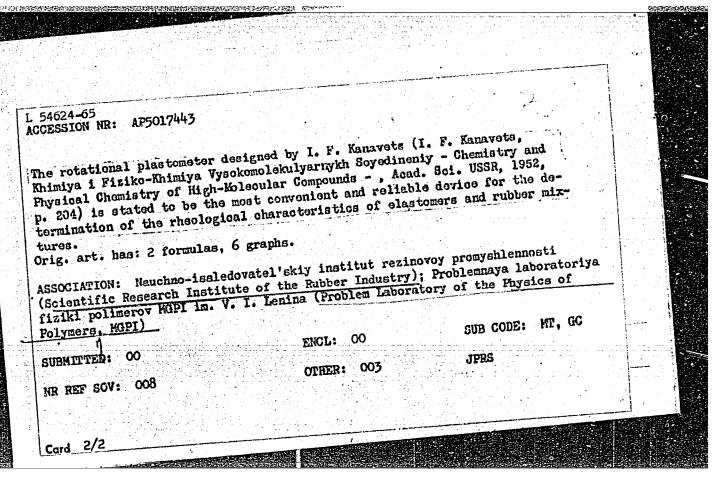
NAZIE, Vladimir Sergeyevich; FIS'YAUK, Z.V.; 10VAROVA, M.F.; MARTSEVICH, Yu.P., red.

[New types of brined and prickled vegetables; from the practices of the Consumers Associations of the R.S.F.S.R.] Novye vidy sclenykh i kvashenykh ovoshchei; iz opyta raboty potrebsoiuzov RSFSR. Meskva, Ekonomika, 1964. 50 p. (MIRA 18:4)

L 54624-65 EWT(m)/EPF(c)/EWP(j)/I CCESSION NR: AP5017443	Pc-4/Pr-4 HH	
	UR/0138/64/000/011/0018/0022	
UTHOR: Povarova, Z. G.; Bartenev, G. M.	[[전환] [[[[[[]] [[[] [[] [[] [[] [[] [[] [[]	
ITLE: Rotational viscosimeters and method	s for the investigation of the flow	
DURCE: Kauchuk i rezina, no. 11, 1964, 18	-22	
PIC TAGS: rubber, viscous flow, polymer,	polymer physical chemistry	
The design and principle of oper- onal viscosimeters are reviewed. Results. rious types of viscosimeters operating en-	ation of a number of USSR rota- of measurements carried out on ther at a constant sheer deferment	The second secon
at the energy of and the measurements on poly	TOOUNG TOUGHT IT IS homeent and	
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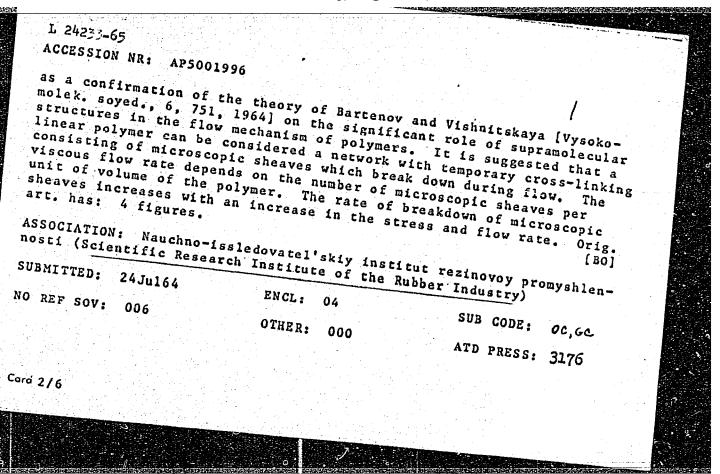
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BARTENEV, G. M.; FOVAROVA, Z. G.	
"Polyiscbutylen-Rox-Misonungen."	
report submitted for High folymers Mtg & Rouber Symp, Leipzbe, 41de, 25-2 (1987).	

POVAROVA, Z.G.

Viscosimetric method of determining structural changes of polymers when processed at various temperatures and pressures.

Report to be presented at the 13th Conference on high-molecular compounds Moscow, 8--11 Oct 62

L 24233-65 EPF(c)/EWP(j)/EWT(m)/T Pc-4/Pr-4 \$/0020/64/159/006/1350/1353 AUTHOR: Bartenev, G. M.; Povarova, Z. G.; Kargin, V. A. (Academician) and supramolecular structure of rubber-Rheological properties TITLE: AN SSSR. Doklady, v. 159, no. 6, 1964, 1350-1353 like polymers TOPIC TAGS: polyisobutylene, polyisobutylene flow, chemical flow, physical flow, rheological curve, supramolecular structure ABSTRACT: The flow mechanism of linear polyisobutylene has been studied in view of the importance of rheological properties in the processing of polymers. The experiments were conducted in a rotary processing or purymers. The experiments were conducted in a rotary viscosimeter with linear PIB of a molecular weight of 900,000 at 60—120C and shear strain rates of 0—1 sec 1. A number of rheological curves (Figs. 1-4 of the Enclosure) are discussed. The abnormal shape of these curves could not be ascribed to "chemical" flow (degradation) because the molecular weight of the polymers and the activation energy of viscous flow remained unchanged under different experimental con-The fact that the flow is "physical" in nature was considered ditions. Card 1/47



NAZAROV, M.I.; POVARNITSTE, M.S.; TURLOVA, Ye.V.

Calculating unsteady temperatures in an I-shaped element.

Vop.rasch.elem.aviate.konstr. no.1:142-168 '59.

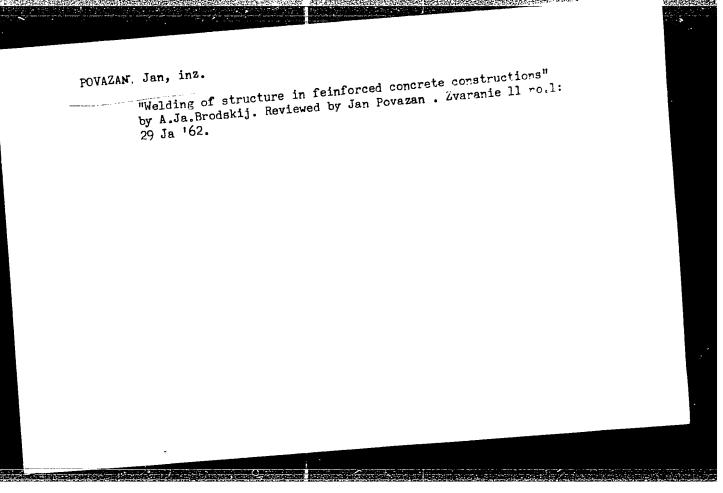
(MIRA 13:6)

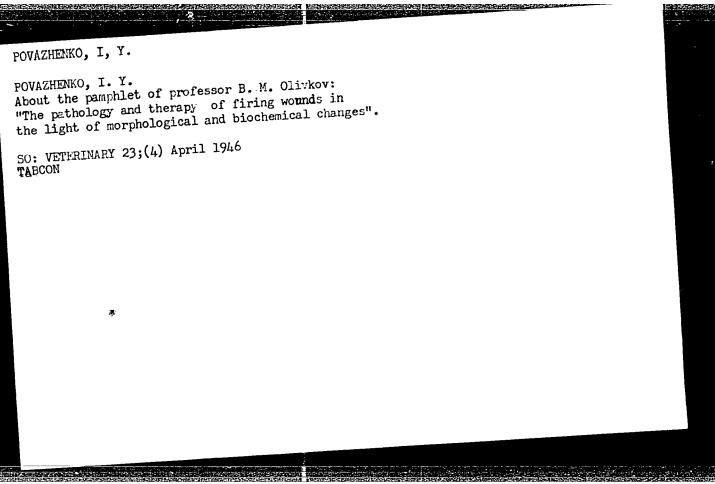
(Heat—Transmission)

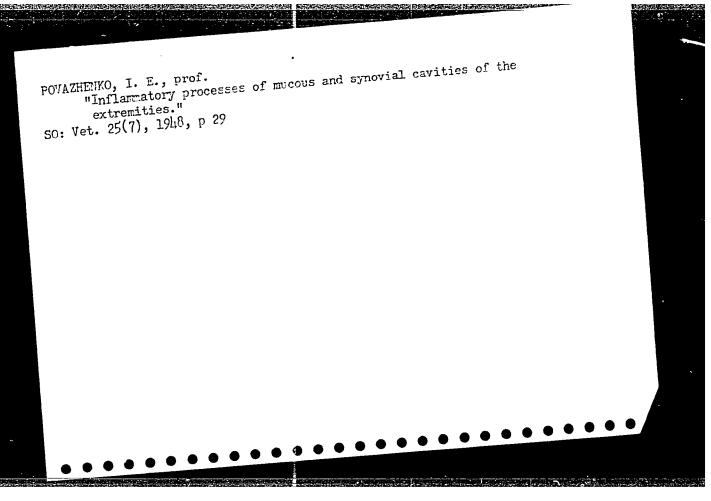
POVAZSAY, Eva, dr.

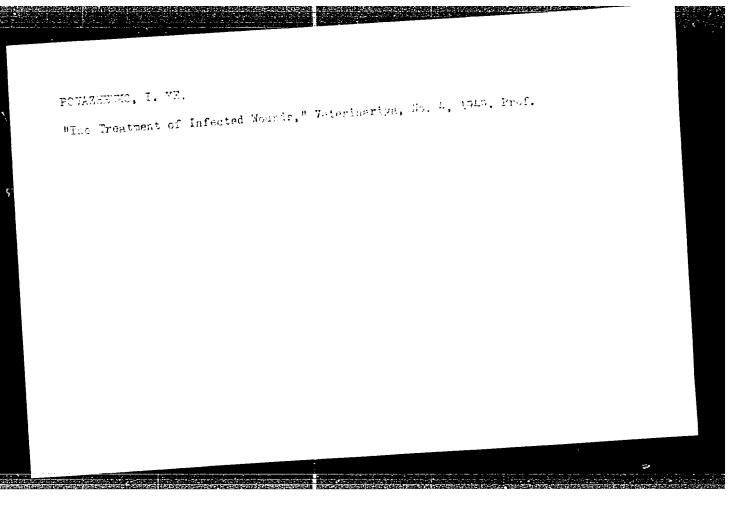
The clinical significance of cervical spondylosis. Crv. hetil. 103 no.37:1747-1748 16 S 162.

1. Budapesti Orvostudomanyi Egyetem, Neurologiai Klinika. (CERVICAL VERTEBRAE) (SPINAL DISEASES)









POVAZHYENKO, I. YE.

27288

K Opyerativiym Vmyeshatyel'stvam Fri Strangulyatsionnykh Ilyeusakh I Loshadi

Sprinwech Red] Vyetyerinariya, 1949, No 9, S. 15-19

SO: LETOPIS NO. 34

POVAZHENKO, I. YE.

Oslozhmeniya u zhivotnykh v svyazi s kastratsiyey (Complications in Animals Resulting From Castration). KIEV - Khar'kov. Sel'khozgiz. USSR. 1950. 132 pages with illustrations.

U-5235

For the state of a horse, hoseva, Gos. izu-vo selkhoz, lit-ry, 1951.

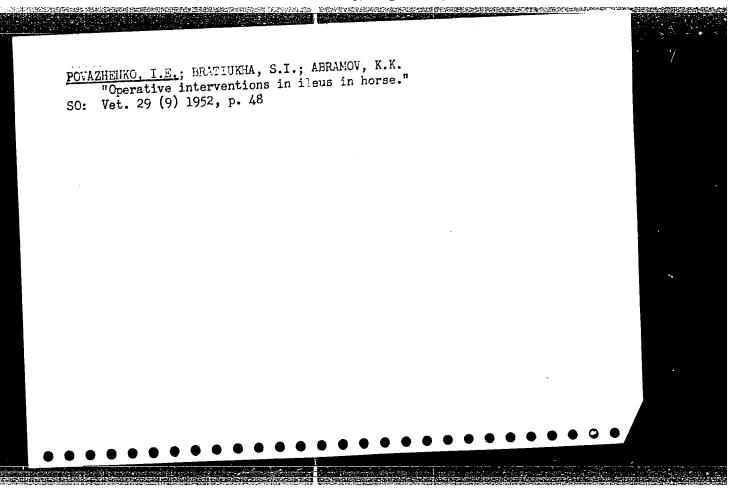
Monthly List of Lussian Accessions, Library of Congress, Earch 1952. UNCLASSIFIED.

POVAZHENKO, I. YE.

Intestines - Surgery

Surgical treatment of ileus in horses. Veterinariia 29 no.,2, 1952.

April 195% Unclassified. 9. Monthly List of Russian Accessions, Library of Congress,



Converge vorcesy veterinarnoi Halrurgichessoi raktiki / Basic proclems in veterinary surficel practice /. King, Schukhozju USSR, 1952. 1 f. Schukhozju USSR, 1952. 1 f. Schukhozju USSR, 1954.

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POVAZHENKO, I.Ye.; BRATYUKHA, S.I.; AVRAMOV, K.K.

Surgical intervation in ileus in horses. Veterinariia 30 no.10:45-50 0 '53. (MLRa 6:9)

1. Kiyevskiy veterinarnyy institut. (Horses-Diseases) (Veterinary surgery)
```

POVAZHENKO, Ivan Yemel'yanovich, prof.; EYRDINA, A., red.; PROKOF'YEVA, L., tekim. red.

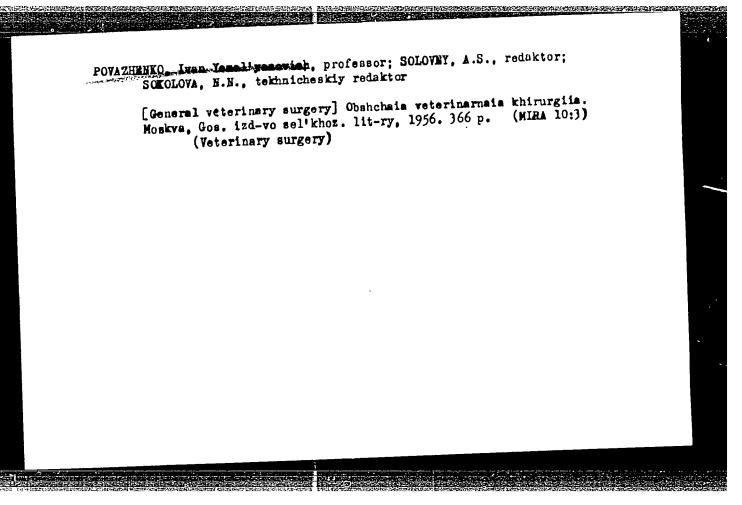
[General veterinary surgery] Obshchaia veterinarnaia khirurgiia.

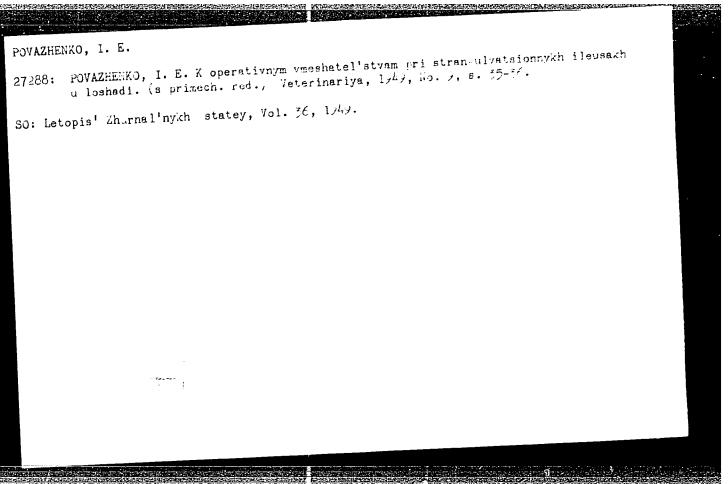
Ind.2., ispr. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry,

Ind.2. 452 p.

(Veterinary surgery)

(Veterinary surgery)





SHAKALOV, Karp Iovich, professor, doktor veterinarnykh nauk; POVAZHENKO,

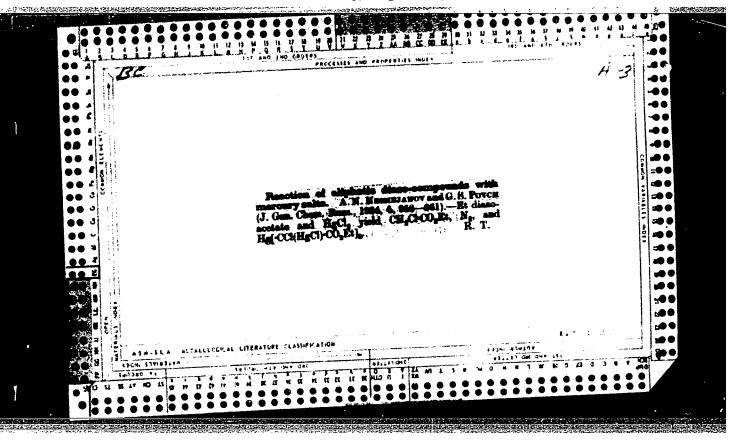
Ivan Yemel'yanovich, professor, zasluzhennyy deyatel' nauki,

doktor veterinarnykh nauk; MEDVEDEV, Ivan Dmitreyevich, professor,
doktor veterinarnykh nauk; NIKANOROV, Vasiliy Alekseyevich,
dotsent, doktor veterinarnykh nauk; RED'KIN, I.Ye., redaktor;
CHUNAYEVA, Z.V., tekhnicheskiy redaktor

[Specialized veterinary surgery] Chastnaia khirurgiia domashnikh zhivotnykh. Izd. 2-oe, perer. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 360 p. (MLRA 9:8)

1. Kiyevskiy veterinarnyy institut (for Povazhenko) 2. Moskovskaya veterinarnaya akademiya (for Medvedev) 3. Leningradskiy veterinarnyy institut (for Shakalov, Nikanorov)

(Veterinary surgery)



POTORITION, T. A.

(Chair of Obsteb. sea dynegol., Unval Med. nowl.)

(I. P. Privation and the Reflection of His Ideas on Obstetrics and G. Jones, 177.

(On the Hundredth Anniversacy of His Birth., "Abusher. 1 Ginebal., Jo. 5, John.

V. G. Butomo

POVED, A.G.

AID Mr. 991-5 17 June

"SOFT"-VACUUM ELECTRON-BEAM WELDING (USSR)

Nazarenko, D. K., A. G. Poved, and N. N. Leont'yev. Avtomaticheskaya svarka, no. 3, Mar 1963, 88-89. S/125/63/000/003/010/012

The Electric Welding Institute imeni Ye. O. Paton has developed an experimental unit for electron-beam welding in which the vacuum chamber is divided into two compartments. In the welding compartment a vacuum of 1.10-1 to 1.10-2 mm Hg is maintained. A higher vacuum of 1.10-4 to 2.10-4 mm Hg is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone. Experiments with 1X18H9T is maintained only in the electron-gun zone.

Card 1/1

Per Goskay +, L. G.

137-1958-2-2627

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 60 (USSR)

Murach, N.N., Povedskaya, L.G. AUTHORS:

On the Processing of Complex Tin-Lead-Copper-Zinc Concen-TITLE:

trates (K voprosu pererabotki kompleksnykh olovyanno-

svintsovo-medno-tsinkovykh kontsentratov)

Sb. nauchn. tr. Mosk. in-t tsvetn. met. i zolota i VNITO PERIODICAL:

tsvetn. metallurgii, 1957, Nr 26, pp 193-199

A study was made of methods of separating a Cu-Sn-Ph-Zn con-ABSTRACT:

centrate with a view to achieving maximum recovery of the Sn and, on the side, of the other metals. The following treatment was worked out. The concentrate is roasted for 2 hours at 550-650°; the ash is then leached for 3 hours at 130°. Each ton of concentrate requires 2 tons of a 35 percent solution of HCl for leaching. When this was done, recovery of Sn in the cake after

leaching was 84-86 percent; the Sn content of the cake was 15-30 percent (the Sn content of the concentrate being 4-8 percent); 6-10 percent of the Sn went into solution during leaching.

During the roasting, 5-10 percent of the Sn sublimed. The re-

maining useful components were distributed thus: Card 1/2

137-1958-2-2627

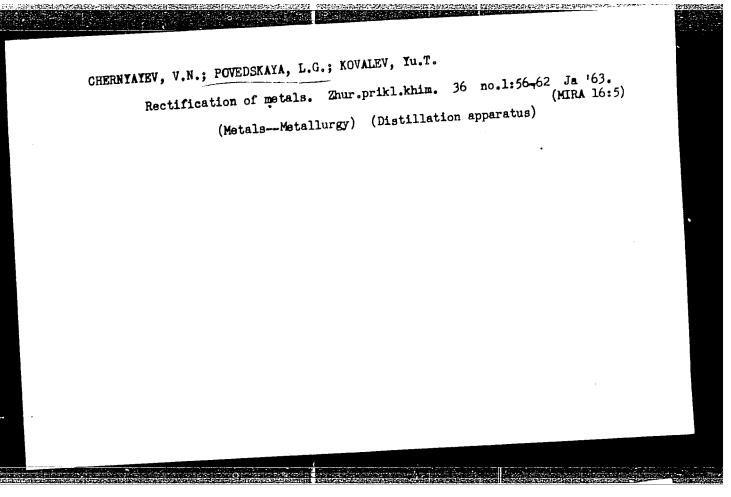
On the Processing of Complex Tin-Lead-Copper-Zinc Concentrates

of the Pb, up to 80 percent passed into the cake, up to 17 percent went into solution, and part of it entered the gas phase; the Cu and Zn went almost entirely into solution; the cake after leaching contained, apart from the Sn, as much as 30-35 percent SiO2 and 25-35 percent Pb. The resulting cake was sent along for washing, drying, then for reduction fusion into Pb-Sn alloys. Pb was recovered from the solution (up to 16 percent). In addition, Cu, Pb, and Sn could be recovered from the solution by cementation.

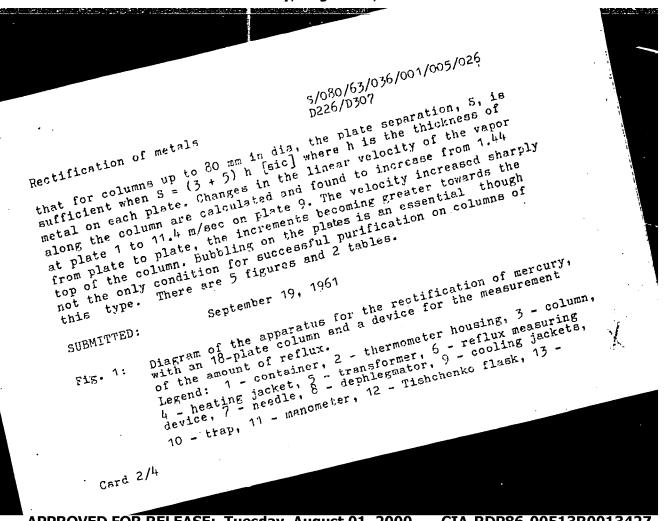
1. Copper alloys -- Processing

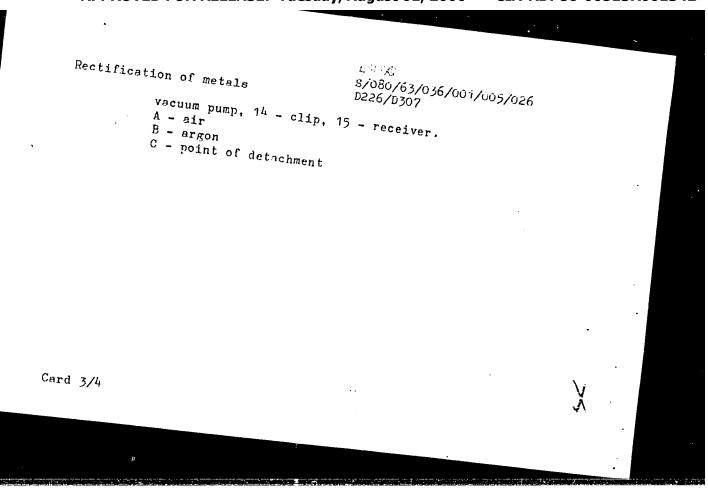
G.S.

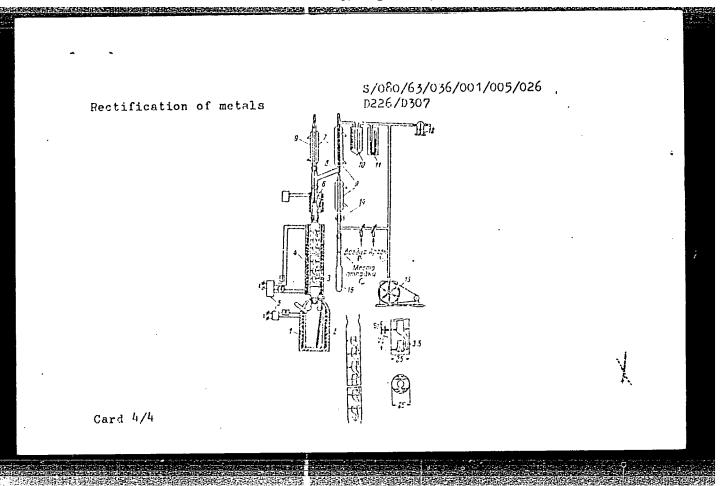
Card 2/2



5/080/63/036/001/005/026 46 to 181 D226/D307 Chernyayev, V.N., Povedskaya, L.G. and Kovalev, Yu. T. AUTHORS: Rectification of metals Zhurnal prikladnoy khimii, v. 36, no. 1, TITLE: The rectification of Hg (at atm. pressure 1963, 56 - 62 PERICDICAL: and under vacuum) and of Cd and Zn (vacuum only) was studied in an effort to develop a suitable apparatus for this purpose and to assess the possibilities of this method for the production of very pure metals. A transparent silica column of 18 bubbler-type plates was used for Hg. The apparatus is shown in Fig. 1. Both this, and a similar 10-plate column allowed successful rectification to be carried out; the collecting rates varied. e.g. from 3.7 to 28.0 g distilled Hg per minute. Regulation of the amount of reflux was difficult. Apparatus of hasically the same construction was used for CA and 7n with a negulation of the amount of rellux was used for Cd and Zn, with a basically the same construction was used for Cd and Zn, with a DABLUSTLY the Bame construction was used for ou and an, with a 10-plate column, with equally successful results. It is concluded Card 1/4



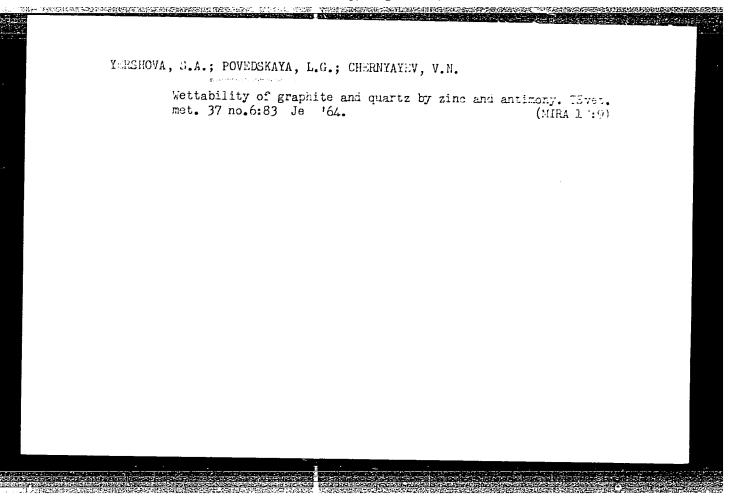




KRAPUKHIN, V.V.; FOVEDSKAYA, L.G.; YERSHOVA, S.A.

Deep purification of zinc by distillation. TSvet. met. 34 no.6:23-27 Je '61. (MIRA 14:6)

1. Institut tsvetnykh metallov imeni M. I. Kalinina. (Zinc--Metallurgy)



L 22556-65 EPA(s)-2/EWT(m)/EWP(t)/EWP(b)

IJP(c) JD/JG

ACCESSION NR: AP5002186

S/0080/64/037/012/2557/2565

AUTHOR: Chernyayev, V. N.; Povedskaya, L. G.; Shashurin, Yu. S.

TITLE: Investigation of the mercury purification process. Communication III in a series of works on the rectification of metals

SQURCE: Zhurnal prikladnoy khimii, v. 37, no. 12, 1964, 2557-2565

TOPIC TAGS: mercury, purification, distillation, distillation column design, vacuum distillation 21

ABSTRACT: The purification of mercury by rectification and the hydrodynamic operating conditions of the plate distillation columns during the rectification were studied. The higher efficiences of vacuum distillation in comparison to distillation at atmospheric pressure were recorded. Columns of different designs were examined: a quartz column with slit plates with the cross section of the openings equal to not less than 10% of the column section was most effective. Fe, Al, Mg, Zn, Pb, Mn, Cd and Cu impurities initially present in amounts less than 1 \times 10⁻⁵

Card 1/2

L 22556-65

ACCESSION NR: AP5002186

wt. % were essentially completely removed or considerably reduced by vacuum distillation. Orig. art. has; 6 tables, 9 figures and 1 equation.

ASSOCIATION: None

SUBMITTED: 07Jun63

ENCL: 00

SUB CODE: GC, IC

NR REF SOV: 005

OTHER: 003

Card2/2

L 38273-65 EWT(m)/EWP(t)/EWP(b) JD ACCESSION NR: AP5007437 \$/0286/65/000/004/0063/0063 AUTHOR: Chernyayev, V. N.; Povedskaya, L. G.; Paremuzov, Ye. P. described execution comments. TITLE: Column for vacuum refining metals and other products. Class 40, No. 168447 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 63 TOPIC TAGS: vacuum refining column, metal vacuum refining, vacuum refining, vacuum purification, metal purification ABSTRACT: This Author Certificate introduces a column for vacuum refining metals and other products which contains plates or packing. achieve a deeper refining or separation of metals, the cross section of the refining portion of the column increases in the upward direction to ensure a constant rate of vapor flow, and the clearance between the upper plate or packing and the vapor outlet into the dephlegmator amounts to 1/4-1/6 of the column height. Orig. art. has: I figure. [AZ] ASSOCIATION: none Card 1/2

SUBHITTED: 24May	y63 Encl:	00	SUB CODE:	KIA O	
NO REF SOV: 000	OTHER	: 000	ATD PRESS:	3227	

L 31993-66 EWT(m)/FWP(t)/FTI IJP(c) JD

ACC NR: AP6019565 SOURCE CODE: UR/C080/66/039/006/1259/1266

AUTHOR: Chernyayev, V. N.; Zernov, V. B.; Povedskaya, L. G.; Yershova, S. A.;

Klofach. I. I.

ORG: none

TITLE: Deep purification of <u>cadmium</u> and <u>zinc</u> by rectification and <u>zone</u> refining

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 6, 1966, 1259-1266

TOPIC TAGS: cadmium, zinc, metal purification, metal zone refining, electric resistance, cadmium compound, zinc oxide

ABSTRACT: Deep purification of CdO commercial-grade cadmium and Z_{nO} commercial-grade zinc by rectification and subsequent zone refining is described. Rectification was done in a h-f induction heated, graphite, shelf-type column with 26 plates, or in a quartz bubbling-type column with 10 and 20 plates. A single charge of metal was 9—11 kg. The purity of the metal fractions obtained with rectification was determined by measurement of the residual electric resistance at 4.2 K. Rectification alone lowered the total content of Al, Ni, Sn, Sb, Pb, Bi, Co, Mn, Ca, Ga and other impurities in cadmium to less than $1 \cdot 10^{-5}$ wt %. The yield was 60% of the charge. The lowest values of the residual electric resistance obtained with rectification was $0.9 \cdot 10^{-10}$ ohm·cm for zinc and $0.6 \cdot 10^{-10}$ ohm·cm for cadmium. Additional purification was done by 20-pass zone refining with a molten metal zone 4.5 cm wide

<u>Card</u> 1/2

UDC: 621.915.592:546.47'48

ACC NR: AP6	019565	 -						<u> </u>
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and a zon in zinc and respective cient of th (1·10-3—10 Orig. art.	cadmium purity 1 9 e separat - wt%)	decreased t 9.99998%). ion for the of the seco	o 0.6·10 ⁻¹ From the Cd-Zn sysend compone	data on cac tem with a	10 ⁻¹⁰ ohn Imium rect low conce	icm, responsification	the coe	(the Efi-
SUB CODE:	11, 13/	SUBM DATE:	06May65/	ORIG REF:	015/ AT	D PRESS:	5021	
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CHERNYATEV, V.H.; POVEDSKAYA, L.G.; SHASHURIN, Yu.S.

Study of the purification of zeroury. Thur. prikl. khiz. 37
no.12:2557-2565 B '64.

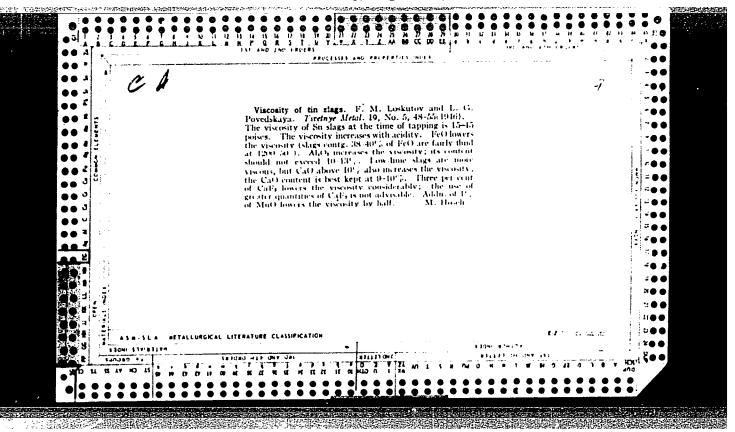
(MIPA 18:3)

POVEDSKAYA, T.A.

Experience with the management of true eczemas according to data from three Leningrad clinics. Vest.derm.i ven. 35 no.3:58-60 Mr '61. (MIRA 14:4)

1. Iz kozhnogo oteleniya (zav. T.A. Povedskaya) Leningradskogo kozhno-venerologicheskogo dispansera No.5 (glavnyy vrach G.Ye. Dynkevich).

(LENINGRAD-ECZEMA)



KESSENIKH, R.M.; SOTNIKOV, V.G.; TRIPPEL!, V.G.; SHUMILOV, Yu.N.; POVELICHENKO, A.P. - CPGZERTVA, Yu.G.

Effect of plasticization on the physical properties of polyvinyl chloride resin. Izv. TPI 126:36-45 '64. (MIRA 18:7)

L.17783-66 EWT(m)/EWF(1) RM ACC NR. AR5020054 SOURCE CODE: UR/0081/65/000/012/s058/s058	一
Gruzdeva, Yu.G.; Povelichenko, A.P.	
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TITIE: Effect of plasticization on the physical properties or <u>plyvinylchloride</u> tar	
SOURCE: Ref. zh. Khimiya, Abs. 128344	
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portitioness, thermal stress FRANSIATION: A study was made of the effect of low-molecular that productive and electric properties of polyvinylchoride (PVC). It was established that Phaffects the maximum of dipole elasticity losses and when the content of Phis considerable it displaces the maximum to lower temperature areas and decreases it; alue; the effect on PVC produced by DBS is stronger than that of DOP. There is a considerable PL effect on the resistance of specific volume in plasticized PVC when the compound contains 20% of Ph. The greatest effect is achieved by DBS, lowering the specific volume resistance by 3 points, as compared to pure PVC. If the compound contains 50% of DBS, the specific volume resistance goes down by 5 points and is runner lowered at higher	at
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content or o'; with a lmost ident	The introduction of of PL in the 50% content of ital effect on appropriately analy	tion of PL lowers e compound, as ref PL in the compound the thermal expans sis it was establi c ordered structure sturb the order of	i, the Er equalision and the ET ished that the	in PVC place introduction al: however	stics. By mean	rs VC	
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USSR / Microbiology. Medical and Veterinary Microbiology. F-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22027

Author : Povelitsa, F.D.

Inst Title

: The Problem of Brucella Resistance in Relation to Sanazin.

Orig Pub: Tr. Kharkovsk. med. in-ta, 1955, No 34, 158-164.

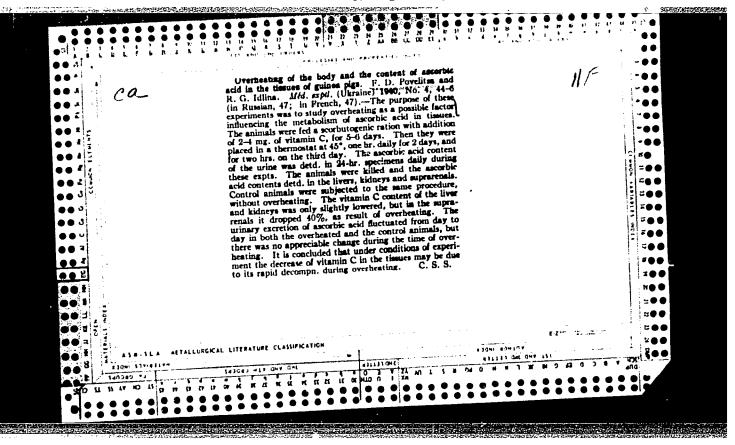
Abstract: Among the 25 tested laboratory and freshly isolated strains of

brucella no cultures were found to be naturally resistant to sanazin (I). In cultivating brucella on a medium containing subbacteriostatic concentrations of I, forms are produced which possess a higher resistance to this preparation. This circumstance indicates adaptability of brucella to I. It may be surmised that in treating brucellosis by I, medically resistant

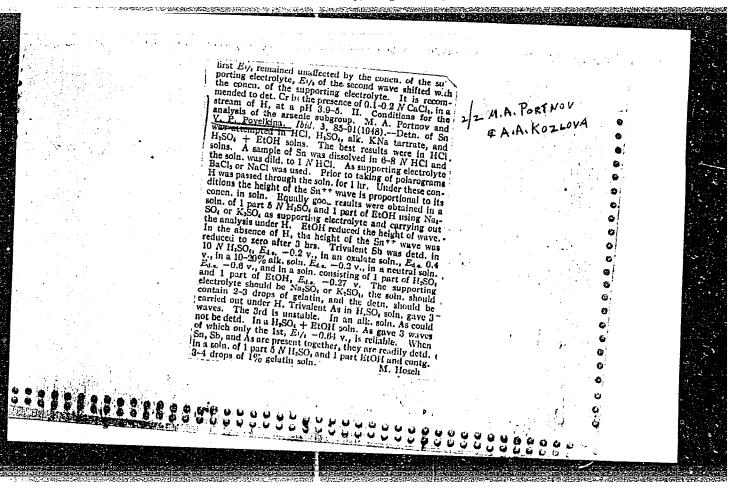
forms of brucella are produced.

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POVEL NENKO, A.P., dotsent

Subtalar dislocation of the foot. Ortop., travn. i protez. 18 no.5:86 S-0 '57. (MIRA 12:9)

1. Iz kafedry gospital'noy khirurgii (zav. - prof.Ye.I.Zakharov) Krymskogo meditsinskogo instituta (dir. - dotsent S.I.Georgiyevskiy).

(FOOT--DISLOCATIONS)

